



# HUNTSVILLE

Shane Davis, P.E.  
Director of  
City Engineering

Tommy Battle  
Mayor

**REDSTONE GATEWAY PACKAGE 1F REDSTONE GATEWAY  
EXTENSION, MARKET STREET, AND OVERLOOK ROAD  
RELOCATION**

**Project No. 65-11-SP22  
September 30, 2011**

**Addendum #1**

The attached pre-bid meeting minutes, all addenda, and attachments for the above- referenced project will become part of the contract documents.

Contractors are authorized to download quantities from website and paste to floppy disk or CD of their choice; one or the other must be submitted with the original bid packet. In addition, two hard copies must be submitted and signed with original bid packet. If a price discrepancy is found on bid disk or CD, printed hard copy prices submitted with original bid documents, with Contractor signature, will prevail. However, calculations must be accurate and will be verified manually.

- Any bidder who designates a change on the outside of the envelope understands that any deletions or additions designated, bidder must further indicate the particular bid item relative to the deletion or addition, even if the deletion or addition references to deduct or add to the Total Base Bid.

**Questions from Contractors**

See attached copy of pre-bid minutes for questions/answers.

**Revised Drawings**

The following drawing sheets have been revised and are attached, also, are accessible on the COH Engineering website under this project information titled "Revised Drawings per Addendum No. 1":

- T1.0** Added sheet LH-6 to the drawing Index.  
**C1.0** Revised ADEM permit expiration date and Sanitary Sewer notes 18-20

**The Star of Alabama**

- C2.1, C2.3, and C3.1** Revised sanitary sewer force main to be "future" instead of "existing".
- C4.6** Removed reference to proposed shoring wall.
- C6.0** Revised dimensions and call outs to the typical cross section.
- C8.2** Revised grading around TVA power poles
- C8.4** Removed reference to proposed shoring wall.
- C9.6-C9.7** Revised match line references for Storm Line B.
- C9.10** Revised profile stations for Line W to match storm pipe lengths.
- C10.0** Revised reference to landscaping drawing in the special notes.
- C10.2** Revised topsoil placement areas.
- C10.4** Added erosion control blanket to cut slope around existing electrical poles.
- C11.0, C11.1 & C11.2** Revised proposed HU power layout to be within the utility and drainage easement.
- C11.3** Revised proposed HU power layout to be within the utility and drainage easement.
- C11.6** Revised dimensions on communication junction boxes.
- C14.4** Revised Junction Box Detail-STR #1A.
- C14.5** Revised 100 yr. water surface elevation and 100 yr. flow in Pond F Outlet Control Structure detail.
- C14.9** Removed details for 7'x6' box culvert and 6'x5' box culvert. Added details for 8'x6' box culvert and 8'x5' box culvert.

**E-VERIFY CONDITIONS:** As a condition of the contract, pursuant to 8 U.S.C. §1324a, Contractor, must certify that it has not knowingly employed, recruited, referred for a fee, or contracted with an unauthorized alien, with respect to employment in the United States. Further, Contractor certifies that it has enrolled in the designated employment eligibility verification system and will maintain enrollment throughout the term of this contract.

All addenda must be acknowledged either on the outside of the bid envelope or on the third page of your bid proposal known as Attachment "B".

**Attachments:** Pre-Bid Minutes  
Attachment "B" to Proposal  
Attachment "A" to Proposal  
Revised Drawings

**END OF ADDENDUM #1**

# MANDATORY PRE-BID MEETING

DATE: Wednesday, September 27, 2011

**REDSTONE GATEWAY: Package 1F – Redstone Gateway Extension, Market Street, and Overlook Road Extension**

**PROJECT # 65-11-SP22**

**OWNER: City Of Huntsville**

**PROJECT MANGER: Brasfield & Gorrie L.L.C.**

**PROJECT ENGINEER: LBYD Civil and Structural Engineers**

**INSPECTIONS: Johnson and Associates**

**SURVEYOR: Garver**

**GEOTECHNICAL ENGINEER: Building and Earth Sciences**

1. Introduction of all persons present, their roles, chain of command, importance of submittals, etc. (PM)

**HANDOUTS:**

- a. Phasing Plan
- b. Redstone Security Procedures
- c. Project Directory

***\*\*\* If you have questions regarding the bid process, please write them down and hold them until the end of this pre-bid meeting (#16 on agenda). If you have specific questions related to the project scope, drawings or specs, they need to be submitted in writing to B&G and will be answered and distributed to all bidders as an addendum. \*\*\****

2. Project Engineer to give a description of work specific to this bid package. Also include description of phase 1 packages (including work "by others" that will have to be coordinated with – List of work "by others" in instructions to bidders) ADEM issues and brief description of future phase 2 and 3. (PE)
3. Project Manager to discuss Schedule of Operations, erosion control plan, disposal of debris from clearing and grubbing, undercutting and replacement, importance of soil management, milestone dates and LD's, importance for control of concrete and asphalt temperature during hot/cold weather, safety, sinkhole remediation, other trade scope that could impact your work, etc. (PM)
4. The following is a list of items (but no limited to) that must be submitted per the bid document requirements that must be submitted by the prime contractor post award: (PM)
  - Balanced Schedule of Values (*within 2 business days of award*)
  - Site Construction Traffic Control Plan (*Prior to Construction Start*)
  - Federal tax form to City (*At time of contract award*)
  - Project Schedule that includes coordination with other packages and future work, time to prepare and approve shop drawings, fabricate and deliver materials and install / complete scope (*within 10 calendar days of award*)

- Payment and Performance bond (*15 Days after acceptance of proposal*)
- Shop Drawings (*Prior to Installation / Placement*)
- Weekly Safety meeting minutes and associated sign in sheets
- Any results by third party safety inspector
- Lien waivers with pay requests
- Seismic surveys / Pre-Blast surveys (*Prior to Drilling and Blasting if required*)
- Red-Line as-built drawings (*at completion of associated scope prior to owner acceptance*)

***(In Addition, YOUR first pay estimate will NOT BE PROCESSED UNTIL ALL REQUIRED DOCUMENTS HAVE BEEN RECEIVED AND APPROVED).***

5. Discuss all Permits, testing, surveying (Dig Permit) (PM)
6. Discuss Bid Form details (Attachment "B" + appropriate Proposal Form) (PM)
7. Contractor is required to submit pricing in person per requirements set forth in bid documents. Failure to do so shall be cause for rejection of bid. A "balanced" detailed Schedule of values including quantities and unit prices that total up to bid Lump Sum to be submitted within two (2) Business Days as basis to establish additive and deductive changes in scope for this project. (PM)
8. Utility Project Notification – LBYD to give a description of utility requirements/conflicts. Attached: names and phone numbers of utility contractors (Pre-Bid attachment "c") for conflict assistance. Contractor is responsible for locating all utilities. (PE)
9. Discuss Submittal of Shop Drawings, as-built requirements, working drawings, material submittals, job-mix formulas in accordance with the time limits in the contract. (PE)

The approval of shop drawings by the Project Manager will cover only the features of the design and in no case shall this approval be considered to cover error or omissions in shop details or a check of any dimensions. The Contractor shall be responsible for the accuracy of the shop drawings, the fabrication of materials and the fit of all connections; and he shall bear the cost of all extra work caused by errors in shop drawings or in fabrication, inaccurate workmanship, misfits of connections or for any changes in fabrication necessary. No work shall be done on the material before the shop drawings have been approved. Any material that the Contractor orders prior to the approval shall be at the Contractor's risk.

**Substitutions or changes whether indicated or implied on shop drawings will not be considered as changes regardless of the Engineer's approval of shop drawings unless the change has been previously submitted and approved as a change order per the requirements for changes in the contract.**



After a shop drawing has been approved, no changes shall be made unless directed in writing to the Owner and acceptance by the Owner of said changes. Any acceptance of change by the Owner does not constitute a change to the contract unless that change has been approved and directed in writing per change order. Compensation for preparing and furnishing all shop and working drawings shall be included in the contract unit prices for the various items of work.

10. Project Engineer & Project Manager to discuss plans and specs:
  - a. A review of the plans should be made with emphasis placed on unusual construction features and special drawings (PE)
  - b. Specifications should be discussed with emphasis on time charges, extra work, materials, etc. (PM)
  - c. State of Alabama classification of MU and HS for this project, (PM)
11. Project Manager to discuss Bid Process and Special Provisions (Instructions to Bidders). (PM)
  1. Each item (attachments) of the contract should be read out and any questions concerning the method of measurement or payment discussed.
  2. Discuss Milestone and Calendar days to complete project. (ask if there any concern that contract cannot be completed within contract time specified.)
  3. Introduction and explanation of any revisions to Supplement to General Requirements
12. Sequence of Construction and Traffic Control with the contractor made aware of his/her responsibility to handle traffic safely through the work zone. The method of payment for traffic control shall be discussed and clearly understood. (PM)
13. For any trench cuts within existing roadways, Contractor is required to patch area with asphalt mix within the same day, unless otherwise specified by the Engineer. (Dense graded Base is no longer an acceptable means of traffic control within existing roadway cuts.) (PM)
14. Discuss Redstone Arsenal Security Information for any work "inside" the Redstone Arsenal Security Fence. Security Badges to be coordinated through Brasfield and Gorrie and contractors should allow a minimum of 2 weeks for approval.
15. Successful contractor will be required to sign the following statement, included as part of the contract: (PM)

**E-VERIFY CONDITIONS:** As a condition of the contract, pursuant to 8 U.S.C. §1324a, Contractor, must certify that it has not knowingly employed, recruited, referred for a fee, or contracted with an unauthorized alien, with respect to employment in the United States. Further, Contractor certifies that it has enrolled in the designated employment eligibility verification system and will maintain enrollment throughout the term of this contract.

16. Any Prime Contractors should be given the opportunity to ask questions or

discuss items with which they are concerned. (PM)

17. All questions need to be sent in writing to Matt Kelley (COH Project Manager) at [mkelley@brasfieldgorrie.com](mailto:mkelley@brasfieldgorrie.com). All questions / clarifications will be answered by an addendum. The pre-bid notes and all addenda shall become a part of the contract documents.
18. Last day for questions concerning this project before the bid will be Monday, October 3, 2011 at 2:00 p.m. to Matt Kelley at [mkelley@brasfieldgorrie.com](mailto:mkelley@brasfieldgorrie.com) or fax to Matt Kelley at 205-714-1399. Final Addendum will be issued no later than Wednesday, October 5, 2011 at 2:00 p.m.

#### **QUESTIONS DURING PRE-BID MEETING:**

1. Q. What utilities are required to be included in this bid?  
A. The Package 1F-1 Contractor must include the cost to relocate any existing utilities, including but not limited to Overlook Road, shown on the drawings such as power, water, and communications. The Package 1F-1 Contractor must also include the cost to install the new storm and new sanitary sewer utilities shown on the drawings.
2. Q. Will the schedule for Area 1 building pad turnover be revised?  
A. Yes, see revised attachment A included in this Addendum.
3. Q. Will Bidders be allowed test dig at the site during the bid process?  
A. No, however there is a test dig scheduled after today's Pre-Bid Meeting. It should be noted all previous Geotechnical Reports are available on the COH website for your review.
4. Q. When is the last day for questions?  
A. Last day for questions concerning this project before the bid will be Monday, October 3, 2011 at 2:00 p.m. to Matt Kelley at [mkelley@brasfieldgorrie.com](mailto:mkelley@brasfieldgorrie.com) or fax to Matt Kelley at 205-714-1399. Final Addendum will be issued no later than Wednesday, October 5, 2011 at 2:00 p.m.
5. Q. What will be in the Addendum issued later this week?  
A. The Pre-Bid Meeting Minutes, questions and answers from today's meeting and drawing/scope modifications.
6. Q. Where is the stockpile of structural fill located?  
A. See sheet C2.0.
7. Q. Is the onsite stockpile of 30,000/cy suitable for use as structural fill?  
A. The existing onsite stockpile is structural material, but bidders must include cost to modify the material as required to meet the project specifications, including, but not limited to moisture conditioning, placement, compaction, etc.

8. Q. Is new fence required for the Overlook Road Relocation?  
A. Yes, the existing fence North of Overlook Road must stay in place until the new fence South of Overlook Road is installed to maintain security at all times.
9. Q. Are the specifications for the project the same as City of Huntsville specifications for their projects?  
A. No, the specifications have been modified and bidders should reference Instructions to Bidders and Supplemental to General Requirements.
13. Q. What is the additional depth below subgrade for this project?  
A. 12" per specifications.
14. Q. How does the 3' high culvert tie into the 4' high culvert on line W?  
A. Match the tops.
15. Q. There are culvert details on the drawings for culvert sizes that are not shown on the drawings?  
A. Additional details will be issued in Addendum #1 to clarify the scope for box culverts.
16. Q. Were all areas North of Overlook Road replated with 4" of topsoil?  
A. No, Area 1 did not receive any topsoil in previous bid packages.
17. Q. Are all bidders required to be pre-qualified?  
A. No, however this was a Mandatory Pre-Bid Meeting so Prime Contractors bidding this project had to attend today's meeting to be eligible to bid. However subcontractors were not required to attend the Mandatory Pre-Bid Meeting.
18. Q. Is this a lump sum bid?  
A. Yes, however apparent low bidder(s) will be required to submit a complete schedule of values (with quantities and associated unit prices) within two (2) business days of public bid opening that totals up to the lump sum price that was publicly submitted in order to establish additive/deductive unit prices for potential scope changes through duration of project.
19. Q. Are the allowances on the bid form to be included in the base bid?  
A. Yes.

**QUESTIONS SUBMITTED AFTER THE PRE-BID:**

1. Q. How much bedding and stone backfill is required around the box culverts in improved and unimproved areas?  
A. Bedding and stone backfill shall be per detail DR-166 and COH specifications. The bedding shall be 6" #78 stone. The unimproved areas shall receive compacted soil backfill and mounded for settlement. Backfill for improved areas shall be #78 stone up to subgrade.



2. Q. Are we responsible for installing electrical and communication in this package, and are we to relocate power lines?  
A. See response to Q&A during Pre-Bid #1 above.
3. Q. Is there a place on base to dispose of asphalt and clearing debris?  
A. Yes, however permission must be obtained from Redstone Arsenal and any associated cost must be included in your bid.
4. Q. Do we install the wheelchair ramps along with the curb and gutter?  
A. No, accessible ramps will be installed as a part of the future 1F-4 package.
5. Q. On sheet 12.0-12.1 it shows water and electrical design by (Huntsville Utilities)...do we install that material or does the city install that material?  
A. This will awarded in a future bid package.
6. Q. Is there any special bid bond form?  
A. No.
7. Q. On the demolition plans C3.1 through C3.5, there is a lot of fencing noted to be removed. Some of it says to be "removed" and some of it (along the north side of the road) is noted to be "salvaged to owner". Please verify only the fencing noted to be salvaged is indeed to be salvaged (and not all fencing).  
A. All security fencing is to be salvaged. The barbed wire fencing should be removed.
8. Q. Please clarify to what extent you want the fence materials salvaged - i.e., fabric to rolled.  
A. The top rail, bracing, stretcher bars and metal mesh shall be stored on-site at a location directed by the City Project Manager. Fence posts shall be removed off-site at Contractors expense.
9. Q. Is the fence to be salvaged in good condition for re-use by others?  
A. Yes. See Q&A #8 above.
10. Q. For the new security fencing, the specs indicate a 7' height. To be more specific, the drawing details on C14.6 reference either a FE5, FE6 or FE7 fencing?  
A. FE6 – match existing.
11. Q. Please clarify height of fence utilizing the standards given in the drawings?  
A. Metal Mesh height is to be 7' high (match existing).
12. Q. The chain link specs also call for an option to use vinyl coating, but this option is not on the bid form?  
A. No vinyl option, omit from specifications.
13. Q. Will there be an allowance added for mass rock at the pond excavation?  
A. Yes, see revised bid form.



14. Q. What drawings changes occurred to the Package 1F drawings in Addendum #1?

A. See below:

**Sheet T1.0** - Added sheet LH-6 to the drawing Index. The sheet is already included in the original bid documents.

**Sheet C1.0** - Revised ADEM permit expiration date and Sanitary Sewer notes 18 – 20.

**Sheet C2.1, C2.3 & C3.1** - Revised sanitary sewer force main to be “future” instead of “existing”.

**Sheet C4.6** -Removed reference to proposed shoring wall. See C8.4 for additional details. Added notes referencing new proposed utility and drainage easements.

**Sheet C6.0** - Revised dimensions and call outs to the typical cross section.

**Sheet C8.2** - Revised grading around TVA power poles and flow from one spot elevation.

**Sheet C8.4** -Removed reference to proposed shoring wall. Revised grading around the power pole to show temporary 1:1 cut slope to allow installation of Market Street and added the final grades to be completed once the power poles have been removed.

**Sheet C9.6 – C9.7** - Revised match line references for Storm Line B.

**Sheet C9.10** -Revised profile stations for Line W to match storm pipe lengths. Revised reported HGL elevations for Storm Line Z.

**Sheet C10.0** - Revised reference to landscaping drawing in the special notes.

**Sheet C10.2** - Revised topsoil placement areas.

**Sheet C10.4** - Added erosion control blanket to cut slope around existing electrical poles.

**Sheet C11.0, C11.1, C11.2** - Revised proposed HU power layout to be within the utility and drainage easement. Revised the location of some of the electrical cabinets and switch gear. Added note to contact RSA-NEC to coordinate the relocation and connection of fiber and copper lines.

**Sheet C11.3** - Revised proposed HU power layout to be within the utility and drainage easement. Revised the location of some of the electrical cabinets and switch gear. Added sanitary sewer easement. Added note to contact RSA-NEC to coordinate the relocation and connection of fiber and copper lines.

**Sheet C11.6** - Revised dimensions on communication junction boxes.

**Sheet C14.4 - Revised Junction Box Detail – STR#1A.**

**Sheet C14.5 - Revised 100 yr. water surface elevation and 100 yr. flow in Pond F Outlet Control Structure detail.**

**Sheet C14.9 - Removed details for 7'x6' box culvert and 6'x5' box culvert. Added details for 8'x6' box culvert and 8'x5' box culvert.**

15. Q. I am having difficulty determining the surface area of the permanent seeding, mulching and top soiling in some areas.

Reference drawing 8.2 where we are grading the swale along the 640 proposed contour. Reference drawing 10.2 where the drawings call out for permanent seeding, mulching and topsoiling in an area just north of the proposed 640 contour.

- A. Replanting of topsoil and permanent seeding are only required for areas that are disturbed for own scope in Package 1F-1. Drawing C10.2 has been reissued (with addendum #1) clarifying this area.

16. Q. The 30,000 CY of structural stockpile that was mentioned in the pre-bid meeting is not shown on the CADD file. Are you aware of this? Also, if the site is balanced before the stockpile is completely removed, what should the contractor do with the remaining stockpile? Our preliminary take-off doesn't show the need for the complete use of the stockpile, only a minimum amount is needed.

- A. The existing structural material stockpile is included in the CAD file per the following layers:

- C-TOPO-MAJR
- C-TOPO-MAJR-IDEN
- C-TOPO-MINR

In addition, any of the existing stockpiled structural material not utilized by the 1F-1 Contractor, shall be stabilized, seeded, and left in place for use by others in future packages.

**ATTACHMENT "B" to PROPOSAL  
PROPOSAL FORM**

**PACKAGE 1F-1 Mass Grading, Critical Pad Delivery, Fine Grading, Erosion Control, Storm, Curb, and Paving**

REDSTONE GATEWAY  
COH PROJECT NO. 65-11-SP22

ITEM	DESCRIPTION	QTY.	UNIT	AMOUNT	AMOUNT DESCRIPTION (MUST BE WRITTEN IN "WORDS" AND MATCH THE "AMOUNT" COLUMN FIGURE)
1	<b>Mobilization</b> <i>(not to exceed 5% of the total base bid)</i>	1	L.S.	\$ _____	FOR THE LUMP SUM PRICE OF: _____ _____ DOLLARS AND _____ CENTS
2	<b>Earthwork, Storm Drainage, Paving and balance of package:</b> <i>(to include all labor, materials, supervision, overhead and profit to complete work as shown and outlined in project plans and specifications)</i>	1	L.S.	\$ _____	FOR THE LUMP SUM PRICE OF: _____ _____ DOLLARS AND _____ CENTS
3	<b>Total Allowances</b> <b>Items A thru D (Below)</b>	1	L.S.	\$ _____	FOR THE LUMP SUM PRICE OF: _____ _____ DOLLARS AND _____ CENTS
FOR THE TOTAL BASE BID LUMP SUM PRICE OF (ITEMS 1 thru 3):				\$ _____	FOR THE LUMP SUM PRICE OF: _____ _____ DOLLARS AND _____ CENTS



**ATTACHMENT "B" to PROPOSAL  
PROPOSAL FORM  
PACKAGE 1F-1 Mass Grading, Critical Pad Delivery, Fine Grading, Erosion Control, Storm, Curb, and Paving  
REDSTONE GATEWAY  
COH PROJECT NO. 65-11-SP22**

**ALLOWANCES TO BE INCLUDED IN BASE BID TOTAL**

(Note: Allowances will be used on an as-needed basis. Upon Project Completion, Any Balance will be subtracted from Contract)  
ALL VOLUME MEASUREMENTS TO BE "BANK YARDS" - (IN PLACE MEASUREMENT)

ITEM	DESCRIPTION	QTY.	UNIT	UNIT PRICE	TOTAL AMOUNT	AMOUNT DESCRIPTION (MUST BE WRITTEN IN "WORDS" AND MATCH THE "TOTAL AMOUNT" COLUMN FIGURE)
A	Trench Rock Removal and place on-site Allowance: For Additive Change Orders	100	CY	\$ _____	\$ _____	FOR THE LUMP SUM PRICE OF: _____ _____ DOLLARS AND _____ CENTS
B	Temporary Road Allowance: Furnish and install, maintain, and remove temporary road with Fabric and 8" of #57 Stone for Additive Change Order	3,000	SY	\$ _____	\$ _____	FOR THE LUMP SUM PRICE OF: _____ _____ DOLLARS AND _____ CENTS
C	Unsuitable Material Below Cut Line Undercut and waste on-site and replace with onsite material for Additive Change Order	15,000	CY	\$ _____	\$ _____	FOR THE LUMP SUM PRICE OF: _____ _____ DOLLARS AND _____ CENTS
D	Mass Rock Removal at Pond Excavation and place on-site: For Additive Change Orders	1,000	CY	\$ _____	\$ _____	FOR THE LUMP SUM PRICE OF: _____ _____ DOLLARS AND _____ CENTS
Total Allowances for Items A thru D:				\$ _____		FOR THE LUMP SUM PRICE OF: _____ _____ DOLLARS AND _____ CENTS

The Apparent Low Bidder(s) will be required to submit, within Two (2) business day after bid opening, a detailed "balanced" breakdown of Bid Items # 1-3 indicating quantities and unit prices. Such unit prices will be the basis for additive and deductive change orders.

\*Legal Name of Bidder (Company) : \_\_\_\_\_

Mailing Address : \_\_\_\_\_

By (authorized signature) : \_\_\_\_\_

Name (Typed) : \_\_\_\_\_

Title : \_\_\_\_\_

Date : \_\_\_\_\_

\* If other than the individual proprietor, a named member of the Partnership, the President, Vice-President or Secretary of the Corporation, attach written authority to bind the Bidder. Any modification shall be over the initials of the person signing the bid.

**ATTACHMENT "A" to Proposal  
REDSTONE GATEWAY PACKAGE 1F  
PROJECT #65-11-SP22**

**Schedule Milestone Dates  
(Calendar Days from Anticipated General Notice to Proceed Date)**

<b><u>Responsibility</u></b>	<b><u>Construction Activity</u></b>	<b><u>Days from NTP to Milestone Completion</u></b>
<b>Package 1F-1</b>	<b>Anticipated General Notice to Proceed (NTP) Finish Storm Drainage Finish Area 1 (Building Pads, Grading, Storm Sewer, and Sanitary per Area 1 Exhibit) Finish Paving Balance of Site</b>	<b>10/31/2011 154 days** 80 days**  275 days**</b>
<b>Package 1F-2</b>	<b>Anticipated General Notice to Proceed (NTP) Finish Water System <u>(Future Bid Package)</u></b>	<b>2/13/2012 40 days**</b>
<b>Package 1F-3</b>	<b>Anticipated General Notice to Proceed (NTP) Finish Communications and Electrical System <u>(Future Bid Package)</u></b>	<b>3/5/2012 54 days**</b>
<b>Package 1F-4</b>	<b>Anticipated General Notice to Proceed (NTP) Finish Landscape, Irrigation, and Hardscape <u>(Future Bid Package)</u></b>	<b>6/11/2012 90 days**</b>

**Legend**

1F-1 - Fine Grading, Erosion Control, Storm, Curb, and Paving

1F-2 - Water System

1F-3 - Primary Communication & Primary Electrical

1F-4 - Landscape, Irrigation, and Hardscape

**\*\* - LIQUIDATED DAMAGES WILL BE APPLIED**

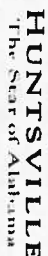
**Notes:**

1. If NTP dates are delayed through no fault of the contractor, NTP dates will be adjusted accordingly.
2. Packages 1F-2, 1F-3, and 1F-4 notice to proceed dates are listed for information only.



**PACKAGE 1 F-REDSTONE GATEWAY EXTENSION,  
MARKET STREET, AND OVERLOOK ROAD RELOCATION  
(UNSECURE AREA)**

# BID SET

**LOCATION MAP**

## PROJECT TEAM

[illegible]

## DRAWING INDEX

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**NOTE:**  
FOR PLOTTING PURPOSES  
GRAY SHADES ARE PRESENT  
24" X 36" FULL SIZE SHEETS





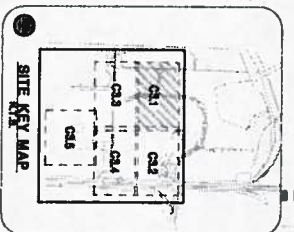
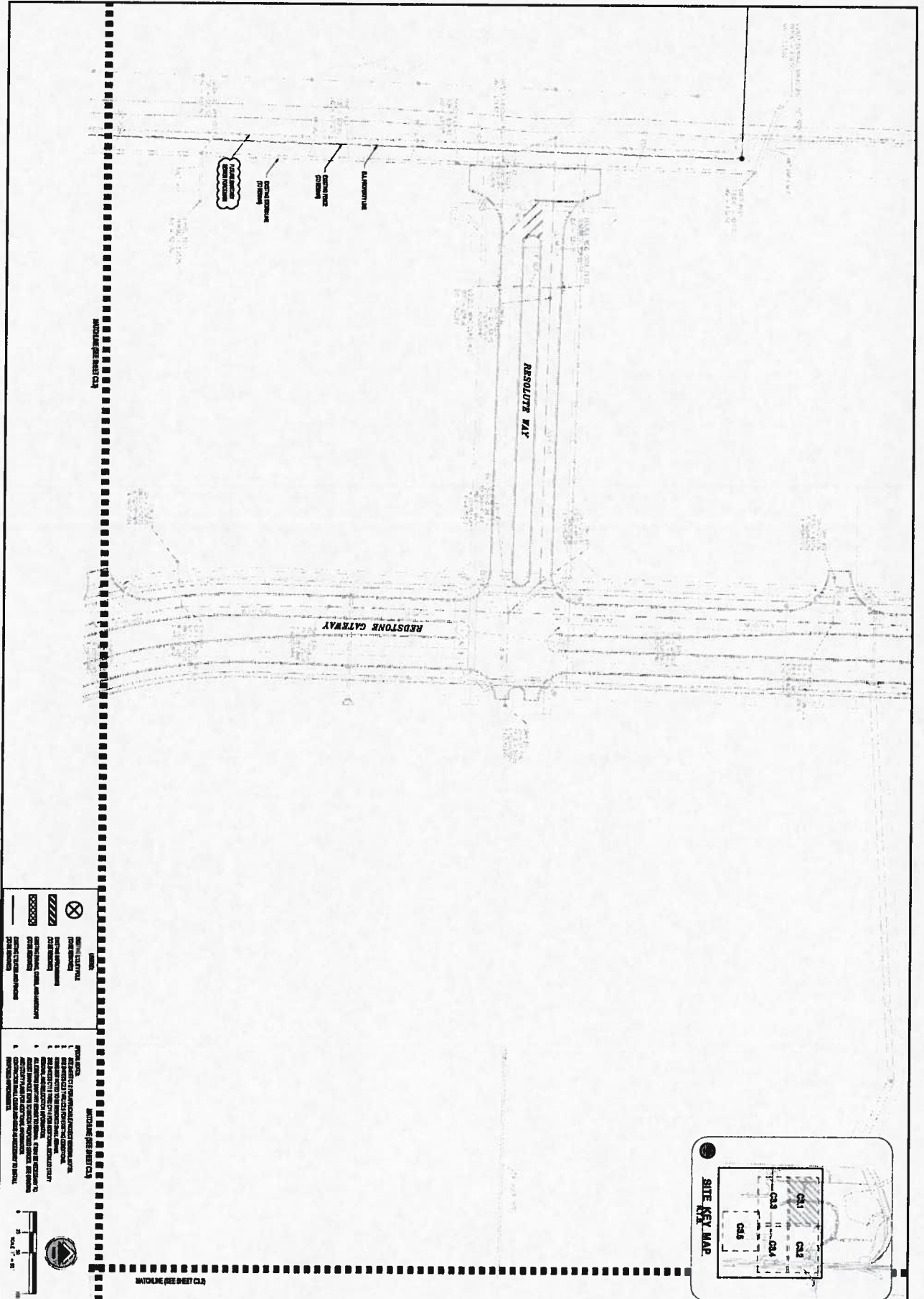












**C3.1**

**DEMOLITION PLAN**

**REDSTONE GATEWAY - PACKAGE 1F**

**ROADWAY IMPROVEMENTS**

**CITY OF HUNTSVILLE**

**HUNTSVILLE, ALABAMA**

**LBVD**

**City and Suburban Engineers**

1000 17th Avenue, Suite 1700  
Huntsville, AL 35893  
Phone: (256) 331-1144  
Fax: (256) 331-1144

309 E. 7th St.  
Huntsville, AL 35893  
Phone: (256) 331-1144  
Fax: (256) 331-1144







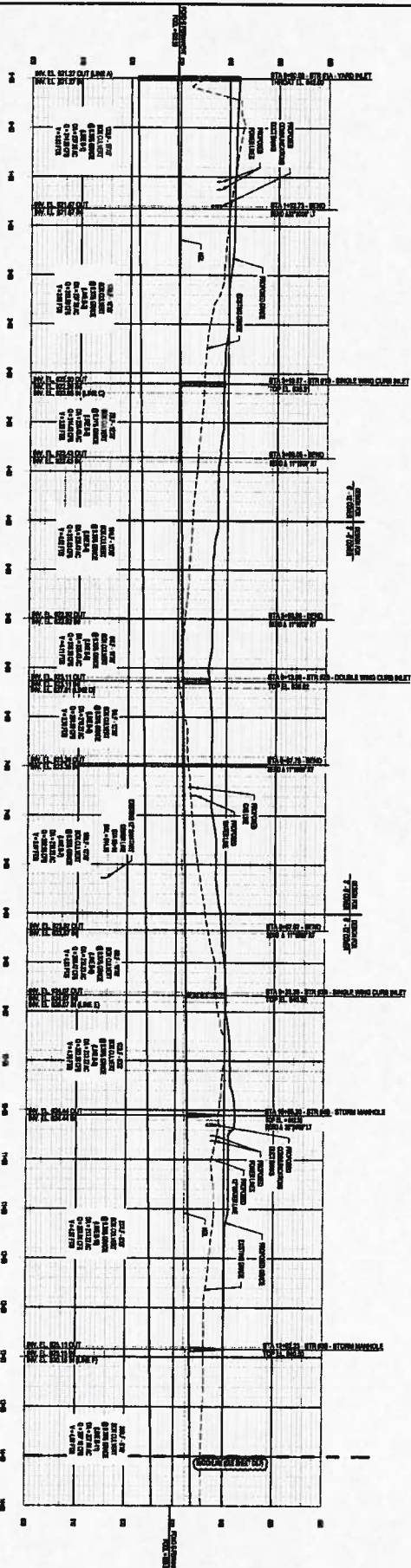




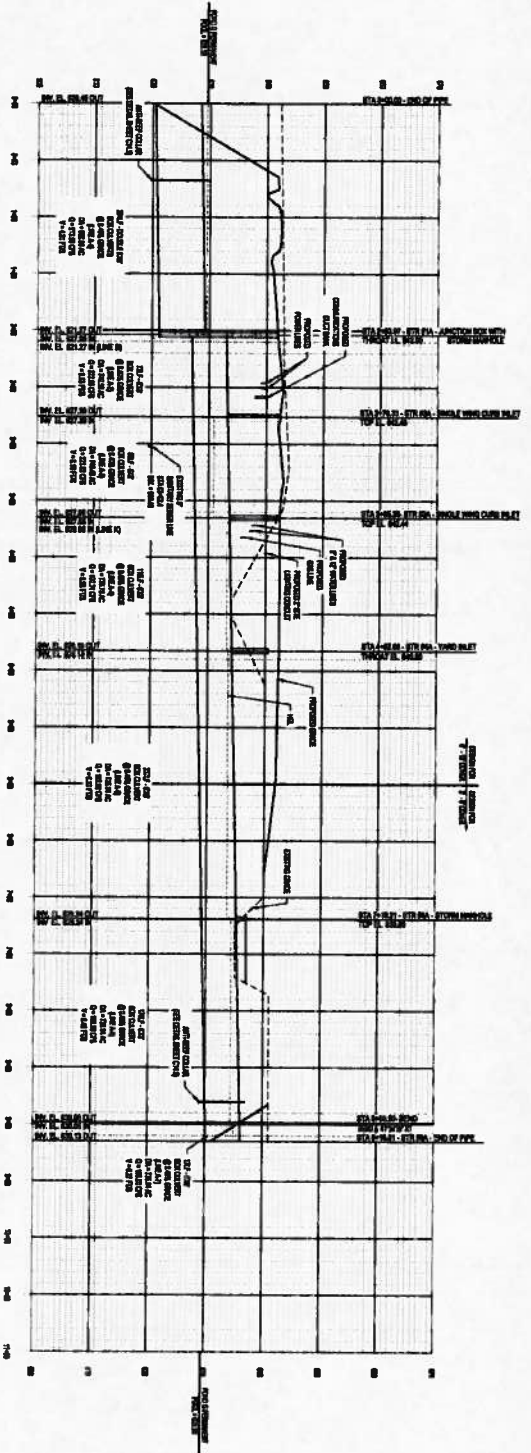


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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STORM LINE B



STORM LINE A



STORM PROFILES  
 1. STORM PROFILES ARE BASED ON THE 100-YEAR FLOOD PROTECTION STANDARD.  
 2. THE PROFILES ARE BASED ON THE 100-YEAR FLOOD PROTECTION STANDARD.  
 3. THE PROFILES ARE BASED ON THE 100-YEAR FLOOD PROTECTION STANDARD.  
 4. THE PROFILES ARE BASED ON THE 100-YEAR FLOOD PROTECTION STANDARD.

DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

C9.6

**STORM PROFILES**  
**REDSTONE GATEWAY - PACKAGE 1F**  
**ROADWAY IMPROVEMENTS**  
**CITY OF HUNTSVILLE**  
**HUNTSVILLE, ALABAMA**

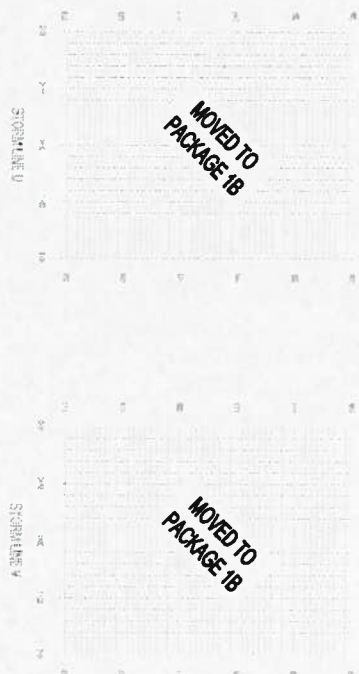
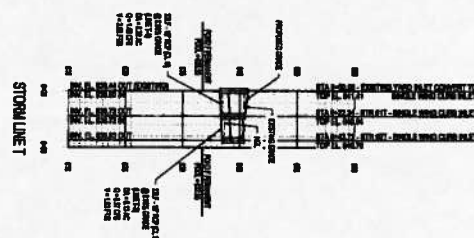
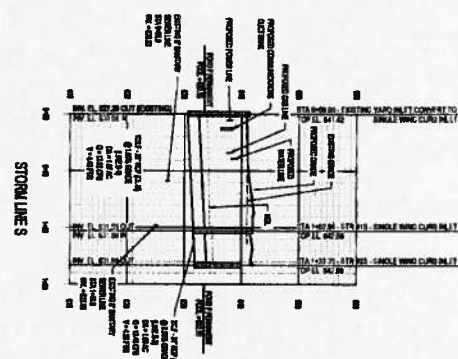
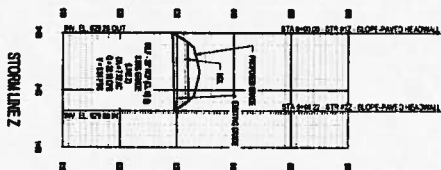
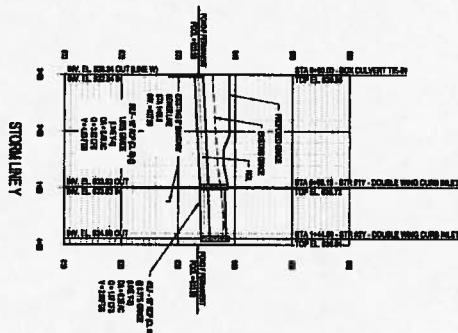
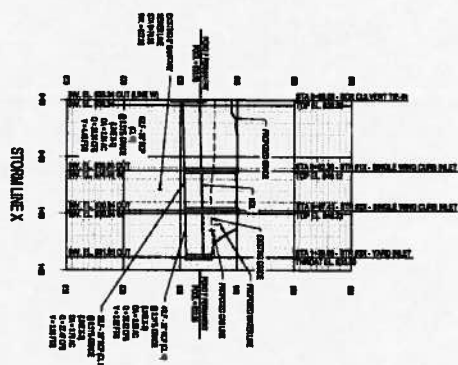
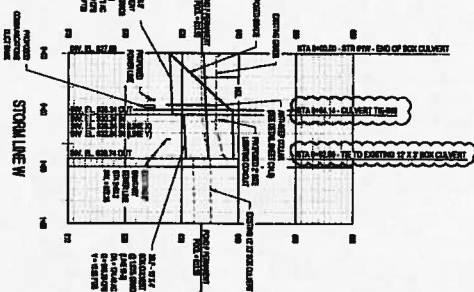


**LBDO**  
 CIVIL ENGINEERING  
 200 CHURCH STREET SW  
 HUNTSVILLE, AL 35891  
 TEL: (256) 533-1144  
 FAX: (256) 533-1144  
 www.lbdo.com







[illegible]

**MOVED TO  
PACKAGE 1B**

MOVED TO  
PACKAGE 1B

1. POWER CORD FOR THE 30-TON RIGGING LINE 2200 CON-SERVE MORE
2. RIGGING LINE 2200 CON-SERVE MORE
3. SEE INSTRUCTIONS TO CALL FOR RIGGING INFORMATION
4. SEE INSTRUCTIONS TO CALL FOR RIGGING INFORMATION
5. SEE INSTRUCTIONS TO CALL FOR RIGGING INFORMATION
6. SEE INSTRUCTIONS TO CALL FOR RIGGING INFORMATION

**NAME** \_\_\_\_\_

**POST OFFICE BOX** \_\_\_\_\_

**CITY** \_\_\_\_\_

**STATE** \_\_\_\_\_

**ZIP CODE** \_\_\_\_\_

**TELEPHONE** \_\_\_\_\_

**DATE** \_\_\_\_\_

**NAME** \_\_\_\_\_

**POST OFFICE BOX** \_\_\_\_\_

**CITY** \_\_\_\_\_

**STATE** \_\_\_\_\_

**ZIP CODE** \_\_\_\_\_

**TELEPHONE** \_\_\_\_\_

**DATE** \_\_\_\_\_

**STORM PROFILES**  
**REDSTONE GATEWAY - PACKAGE 1F**  
**ROADWAY IMPROVEMENTS**  
**CITY OF HUNTSVILLE**  
**HUNTSVILLE, ALABAMA**



**LBYP**

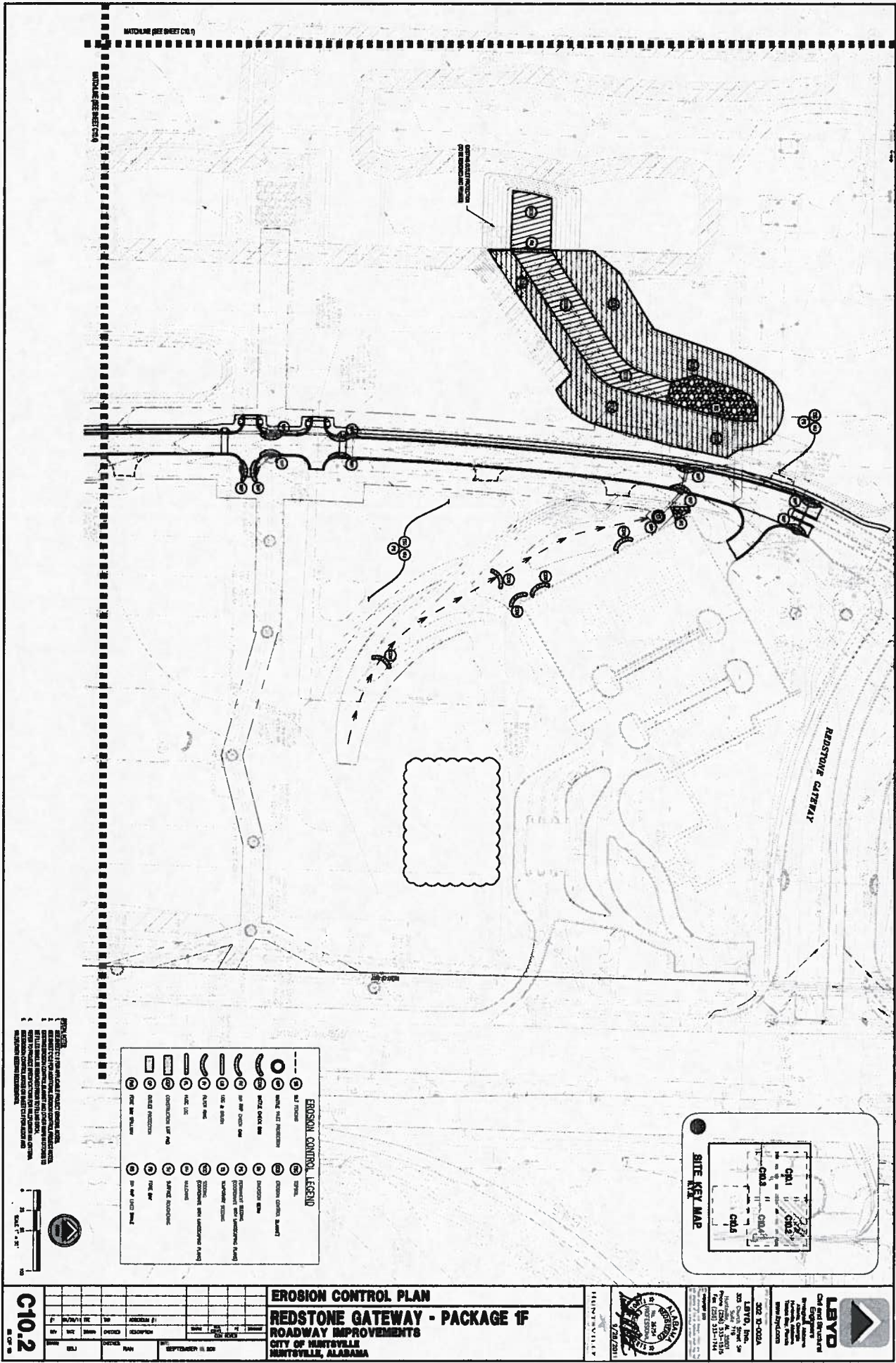
**Call for Specifics**  
Explosives  
Bridges, Automobiles  
Ships, Dredgers  
Storage, Airports  
Tactical Uses  
and More

214-733-1024

**LBYP, Inc.**  
320 Church Street SW  
Suite 710  
Hawthorne, N. J. 07030  
Phone (201) 533-1570  
Telex (250) 533-1764





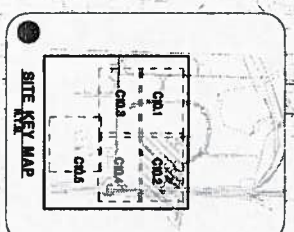


1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.  
 2. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.  
 3. EROSION CONTROL MEASURES SHALL BE REMOVED AFTER THE CONSTRUCTION PERIOD.  
 4. EROSION CONTROL MEASURES SHALL BE REPLACED WITH PERMANENT EROSION CONTROL MEASURES.  
 5. EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE DISCRETION OF THE ENGINEER.



**EROSION CONTROL LEGEND**

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**NOTES:**

1. ALL UTILITIES SHOWN ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY.
2. ALL UTILITIES SHOWN ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY.
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**REVISIONS:**

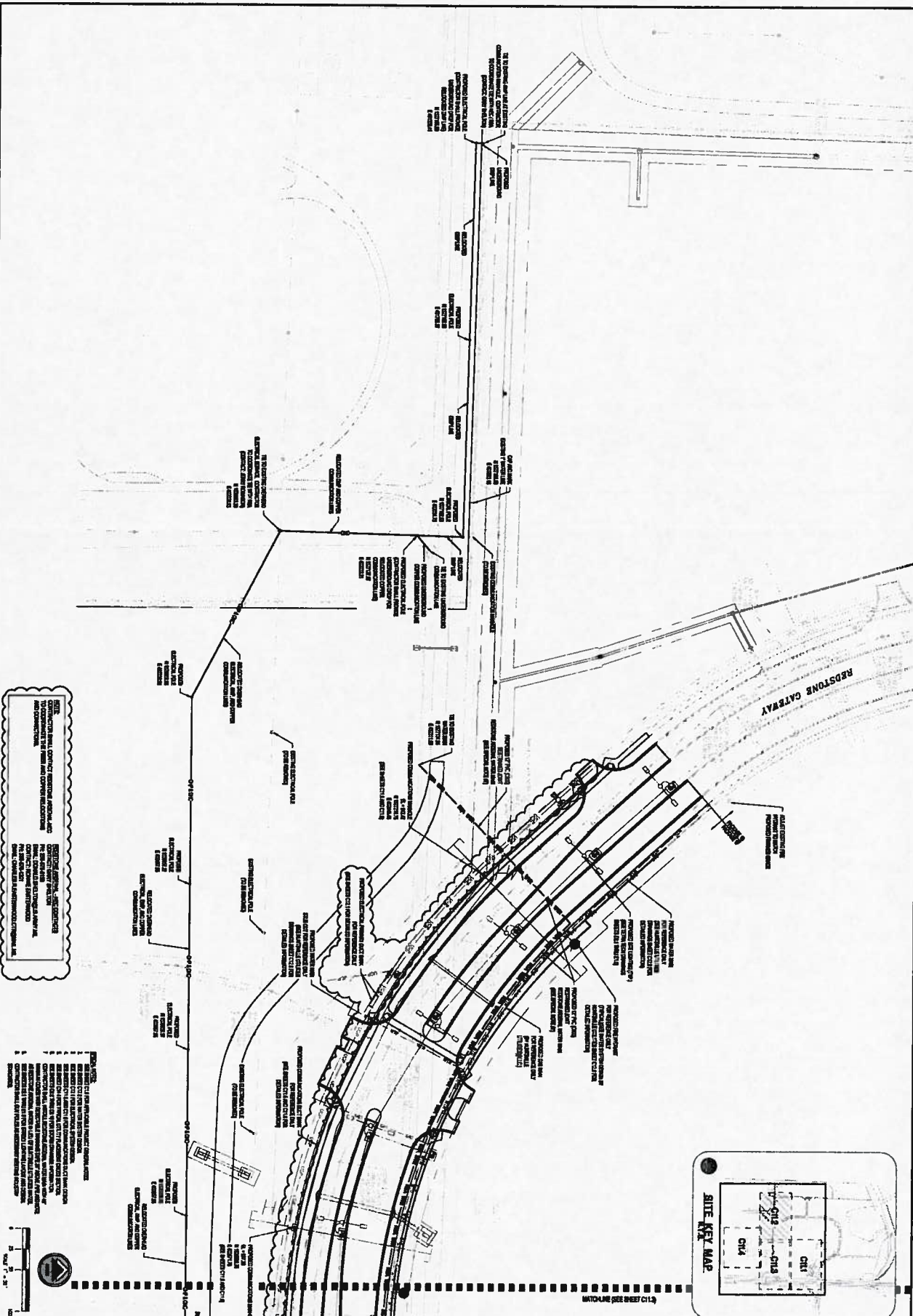
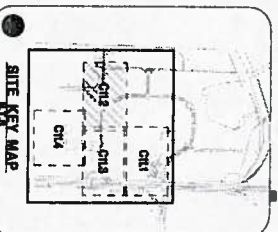
NO.	DATE	BY	REVISION
1	09/20/11	BJJ	ISSUED FOR PERMIT

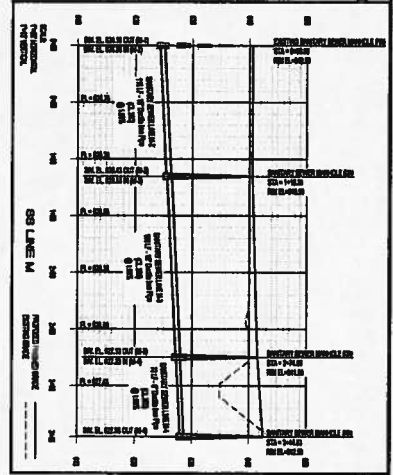
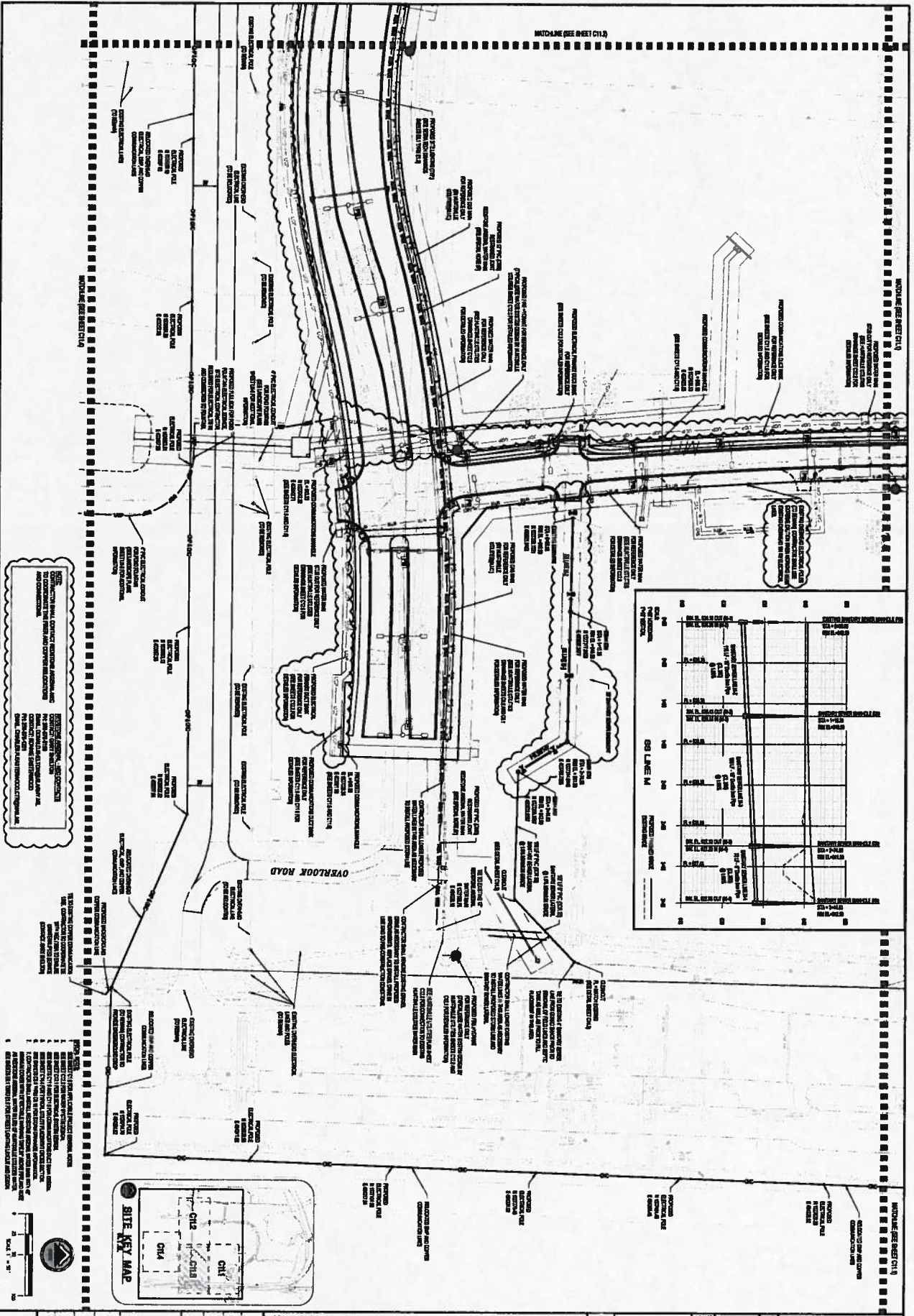
**C11.2**

**UTILITY PLAN**  
**REDSTONE GATEWAY - PACKAGE 1F**  
**ROADWAY IMPROVEMENTS**  
**CITY OF HUNTSVILLE**  
**HUNTSVILLE, ALABAMA**



**LBVBY**  
 Civil and Structural  
 Engineers  
 300 D. OZUNA  
 Suite 100  
 Huntsville, AL 35891  
 Phone: (256) 123-1234  
 Fax: (256) 123-1235  
 www.lbvby.com





**CH1.3**

DATE: SEPTEMBER 15, 2011

BY: [Signature]

CHECKED: [Signature]

APPROVED: [Signature]

**UTILITY PLAN**

**REDSTONE GATEWAY - PACKAGE 1F**

**ROADWAY IMPROVEMENTS**

**CITY OF HUNTSVILLE**

**HUNTSVILLE, ALABAMA**

**LBYD**

CH AND SUTHERLAND

Engineering, Architecture

1000 17th Avenue, Suite 1000

Huntsville, AL 35893

Phone: 256-261-1000

Fax: 256-261-1001

www.lbyd.com

302-D-002A

LBYD, Inc.

302 Dutton Street SW

Huntsville, AL 35893

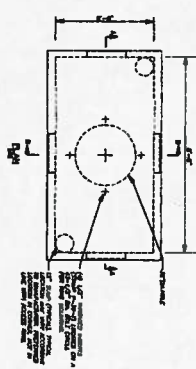
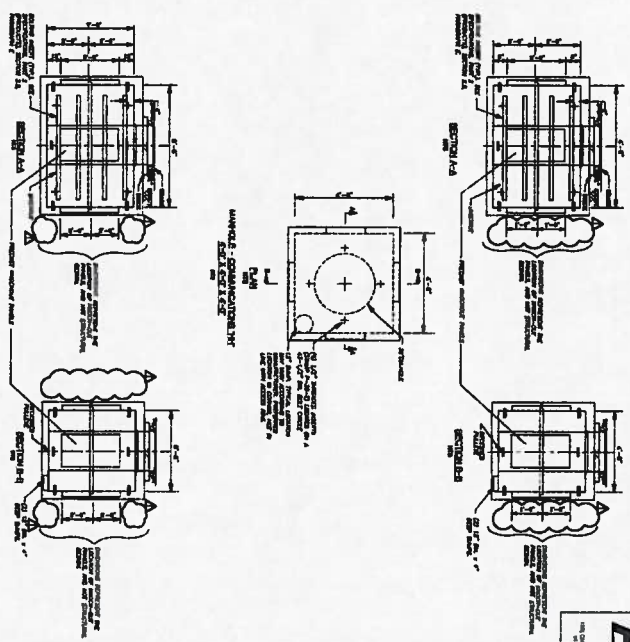
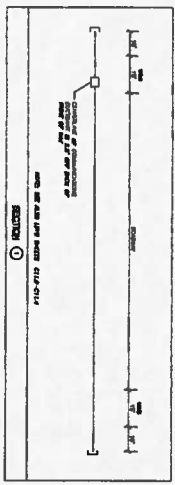
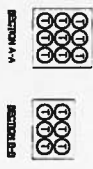
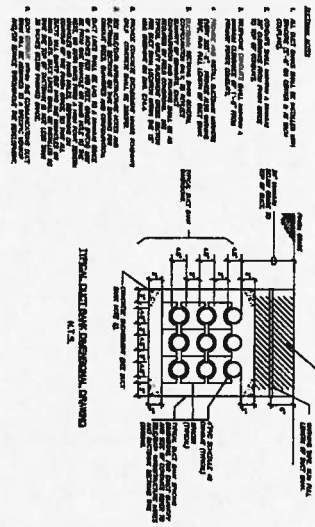
Phone: 256-333-1344

Fax: 256-333-1345

www.lbyd.com

Professional Engineer Seal for LBYD, Inc.

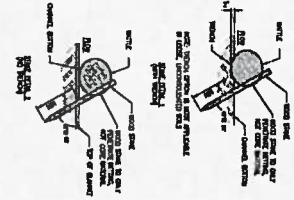




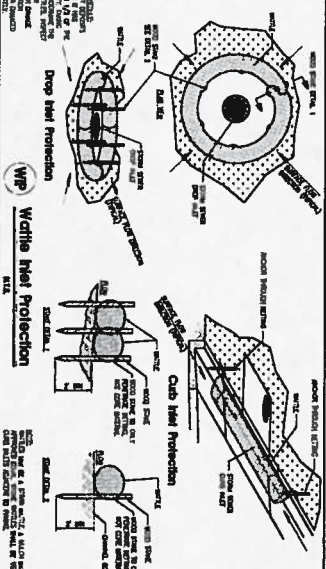
1. SEE PLAN FOR DUCT BANK LOCATION.
2. SEE PLAN FOR DUCT BANK DIMENSIONS.
3. SEE PLAN FOR DUCT BANK SPACING.
4. SEE PLAN FOR DUCT BANK ELEVATION.
5. SEE PLAN FOR DUCT BANK MATERIALS.
6. SEE PLAN FOR DUCT BANK INSTALLATION.
7. SEE PLAN FOR DUCT BANK MAINTENANCE.
8. SEE PLAN FOR DUCT BANK REPLACEMENT.
9. SEE PLAN FOR DUCT BANK REMOVAL.
10. SEE PLAN FOR DUCT BANK REPAIR.
11. SEE PLAN FOR DUCT BANK INSULATION.
12. SEE PLAN FOR DUCT BANK PROTECTION.
13. SEE PLAN FOR DUCT BANK SURROUNDING.
14. SEE PLAN FOR DUCT BANK ADJACENT.
15. SEE PLAN FOR DUCT BANK INTERFERING.
16. SEE PLAN FOR DUCT BANK OBSTRUCTING.
17. SEE PLAN FOR DUCT BANK HINDERING.
18. SEE PLAN FOR DUCT BANK IMPEDING.
19. SEE PLAN FOR DUCT BANK RETARDING.
20. SEE PLAN FOR DUCT BANK DELAYING.
21. SEE PLAN FOR DUCT BANK STOPPING.
22. SEE PLAN FOR DUCT BANK PREVENTING.
23. SEE PLAN FOR DUCT BANK PROHIBITING.
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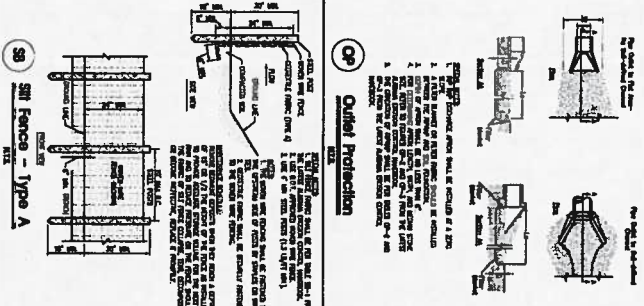




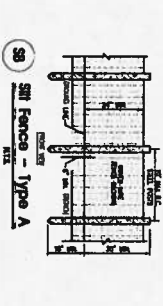
**CDW**  
**Waffle Check Dam**  
**MLL**



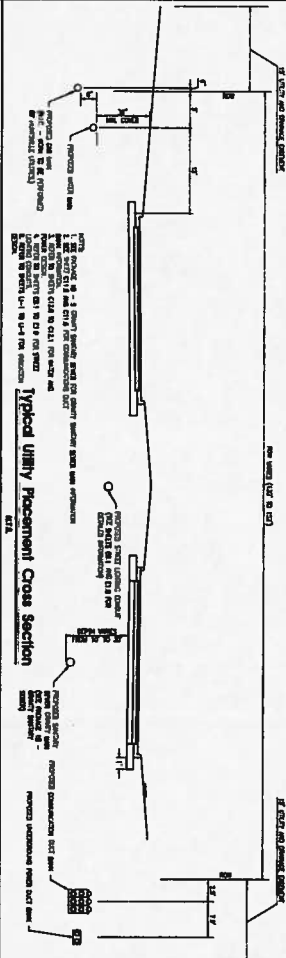
**WIP**  
**Wattis Inet Protection**  
MIA



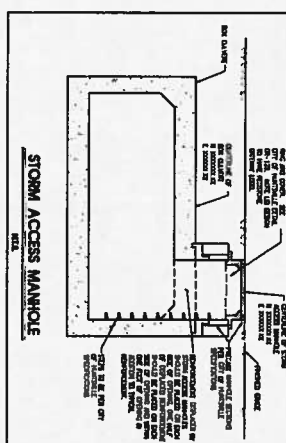
**Outlet Protection**  
**172**



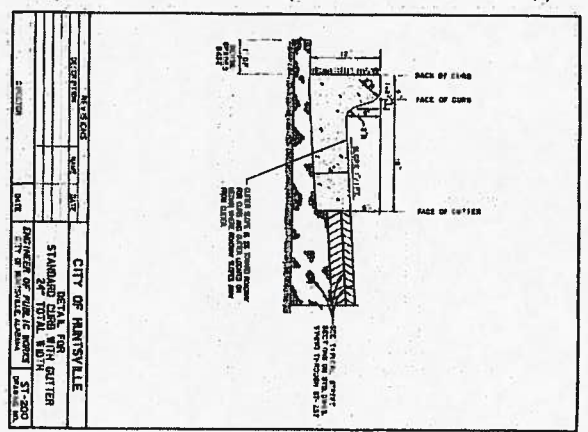
**SMIT Fence - Type A**  
NIA



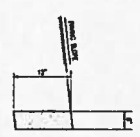
**Typical Utility Placement Cross Section**



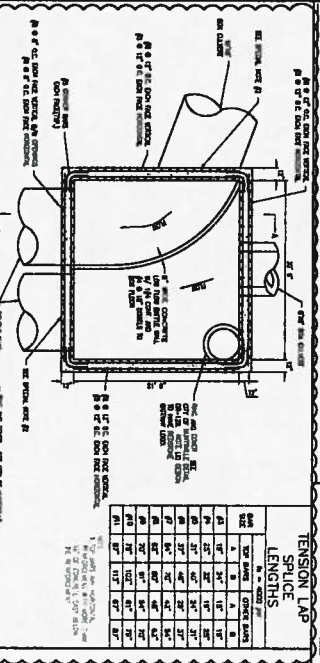
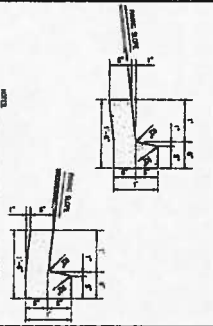
**STORM ACCESS MANHOLE**  
MIL



N-1808		CITY OF HANTSVILLE	
DESCRIPTION	QUANTITY	DETAIL FOR STANDARD CURB WITH GUTTER 2 1/2" TOTAL WIDTH	
SECTION	DATE	ENGINEER OF PUBLIC WORKS CITY OF HANTSVILLE, ALABAMA	
		ST-200 PLANS, M.A.	



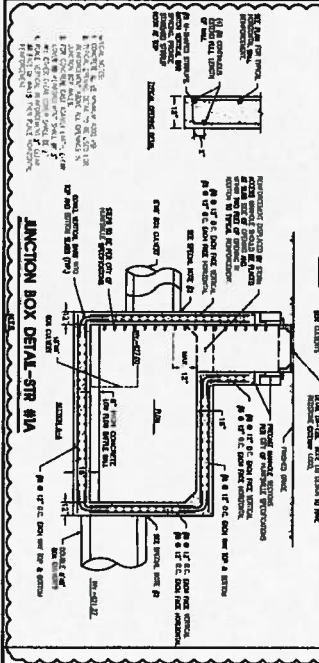
**15" Curb & Gutter**



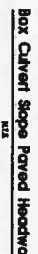
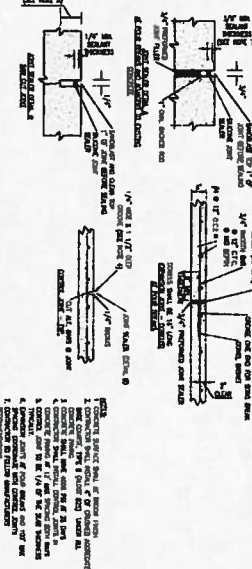
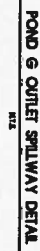
\_\_\_\_\_ ALL \_\_\_\_\_  
TENSION LAP

SPLICE LENGTHS									
No. - 400T per		SPR		GRADE		GRADE		GRADE	
SIZE	A	B	A	B	A	B	A	B	A
1/4"	10"	3 1/2"	18"	18"	18"	18"	18"	18"	18"
5/16"	12"	4 1/2"	20"	20"	20"	20"	20"	20"	20"
3/8"	15"	5 1/2"	24"	24"	24"	24"	24"	24"	24"
1/2"	20"	7 1/2"	30"	30"	30"	30"	30"	30"	30"
5/8"	25"	9 1/2"	36"	36"	36"	36"	36"	36"	36"
3/4"	30"	11 1/2"	42"	42"	42"	42"	42"	42"	42"
7/8"	36"	13 1/2"	48"	48"	48"	48"	48"	48"	48"
1"	42"	15 1/2"	54"	54"	54"	54"	54"	54"	54"
1 1/8"	48"	17 1/2"	60"	60"	60"	60"	60"	60"	60"
1 1/4"	54"	19 1/2"	66"	66"	66"	66"	66"	66"	66"
1 3/8"	60"	21 1/2"	72"	72"	72"	72"	72"	72"	72"
1 1/2"	66"	23 1/2"	78"	78"	78"	78"	78"	78"	78"
1 5/8"	72"	25 1/2"	84"	84"	84"	84"	84"	84"	84"
1 3/4"	78"	27 1/2"	90"	90"	90"	90"	90"	90"	90"
1 7/8"	84"	29 1/2"	96"	96"	96"	96"	96"	96"	96"
2"	90"	31 1/2"	102"	102"	102"	102"	102"	102"	102"

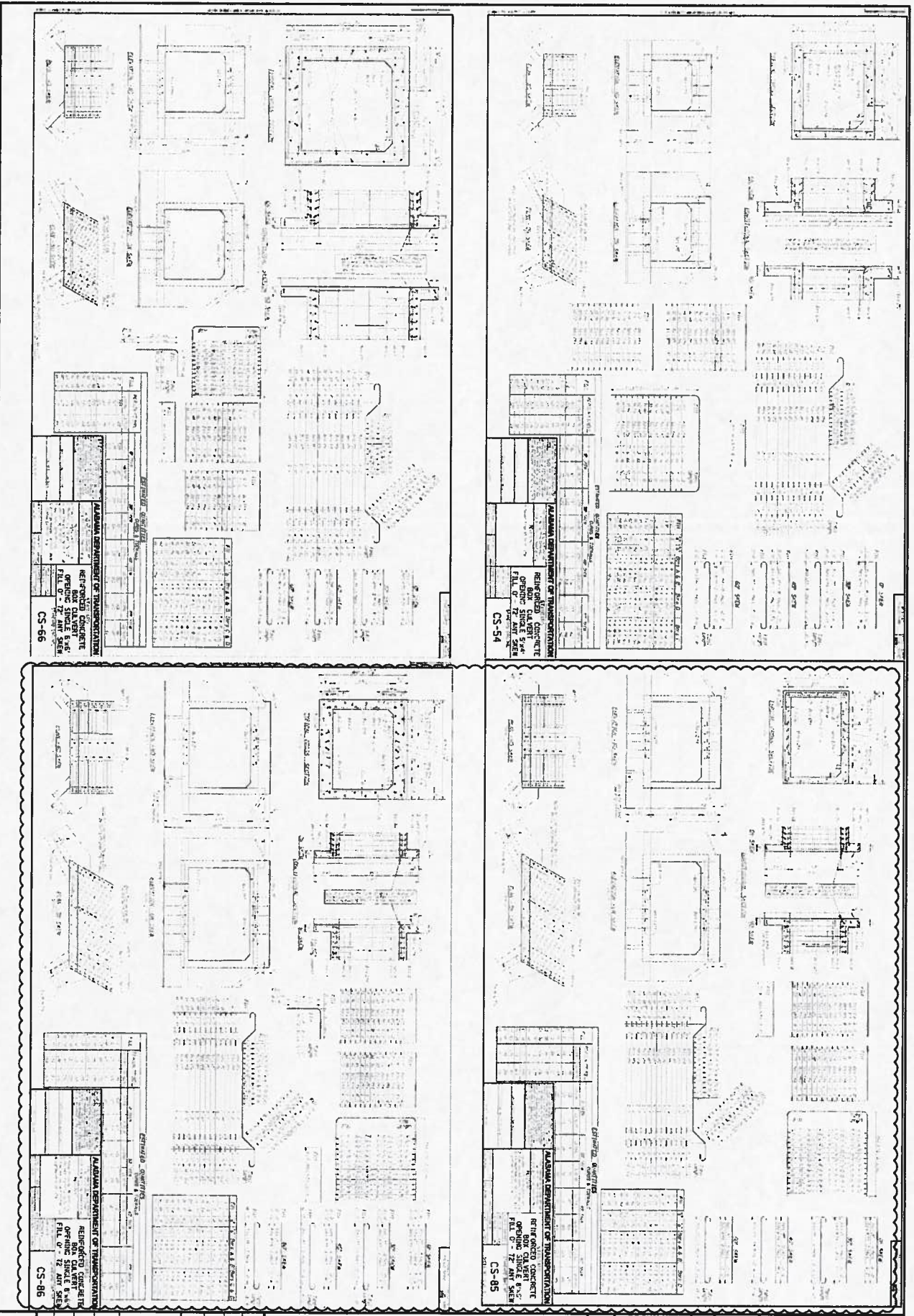
NOTE: 1. ALL SPLICES SHALL BE MADE IN THE MIDDLE OF THE SPAN.  
2. ALL SPLICES SHALL BE MADE IN THE MIDDLE OF THE SPAN.  
3. ALL SPLICES SHALL BE MADE IN THE MIDDLE OF THE SPAN.



**JUNCTION BOX DETAIL-STR #1A**







**C14.9**

**DETAILS**

**REDSTONE GATEWAY - PACKAGE 1F**

**ROADWAY IMPROVEMENTS**

**CITY OF HUNTSVILLE**

**HUNTSVILLE, ALABAMA**

**LYBD**

City of Huntsville  
Bureau of Engineering  
Transportation Section  
1000 11th Avenue, N.E.  
Huntsville, AL 35894  
Tel: (256) 333-1444

3/4" = 10'-0"

20' Offset from 36"  
Right-of-Way Line  
to Centerline of Roadway